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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/770,605	01/29/2004	Charlie Steinmetz	200314315	1603	
75	90 05/08/2006		EXAM	INER	
HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 ART UNITED TO SERVICE ART UNITED			MARTIN, I	MARTIN, LAURA E	
			ART UNIT	PAPER NUMBER	
Fort Collins, Co	O 80527-2400		2853		
			DATE MAILED: 05/08/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)				
	10/770,605	STEINMETZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura E. Martin	2853				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communic D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 Fe	ebruary 2006.					
2a) This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merit	s is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>56-62 and 64-69</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.	•	•				
6)⊠ Claim(s) <u>56-62 and 64-69</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 21 January 2004 is/are:	a)⊠ accepted or b)□ objected	to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.12	21(d).			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152	2.			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage	•			
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list of the certified copies not received.						
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Attack many (a)						
Attachment(s) Notice of References Cited (PTO-892)	. 4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

Claims 56-60, 62, 65, 67-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clark et al. (US 5734401) in view of Wu et al. (US 6059401) and Sato et al. (US 5801737).

Clark et al. teaches a printing-fluid container (figure 1, element 10) having a front face (figure 1, element 22) formed by a single structural piece including a top edge, a bottom edge, a right edge, and a left edge (figure 6); a body (figure 1 element 10) including a latching surface (figure 1, element 72) spaced rearward the front face but intermediate the front face and rear portion and substantially parallel to the front face, wherein the front face and the body are exterior an inner cavity; an air interface (figure 2, element 34) passing into the inner cavity through the front face proximate the top edge and distal the bottom edge; a printing-fluid interface (figure 2, element 32) passing into the inner cavity through the front face proximate the top edge and distal the bottom edge; a first recessed portion (figure 2, element 20) of the front face intermediate the air interface and the printing-fluid interface and proximate the air interface; and a second recessed portion (figure 4, element 38) of the front face intermediate the air interface and the printing-fluid interface and proximate the printing-fluid interface; a third recessed portion (figure 4, element 40) of the front face intermediate the first recessed portion and the right edge and a fourth recessed portion (figure 4, element 36) of the front face intermediate the second recessed portion and the right edge, wherein the first recessed

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portion, second recessed portion, third recessed portion, and fourth recessed portion extend into the inner cavity; a free volume of printing fluid held within the inner cavity (figure 1, element 10) defined by the front face (figure 1, element 22) and the body (figure 1, element 10).

Clark et al. does not teach an off-axis printing-fluid container, a rear portion with less width than the width of the front face, or a protruding portion; nor does Clark et al. teach the first recessed portion and the second recessed portion extending into the inner cavity.

Wu et al. teaches an off-axis printing-fluid container configured to hold a volume of fluid (column 2, lines 21-25); a body including a rear portion having a width less than a width of the front face (figure 4); and a bottom edge including a protruding portion extending away from the top edge and aligned with the air interface (figure 4), the first recessed portion, the second recessed portion, and the printing-fluid interface (figure 3, element 40 – multiple recessed nozzles).

Sato et al. teaches a first recessed portion and a second recessed portion extending into the inner cavity (figure 6, elements 4, 5, and 6).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the printing-fluid container of Clark et al. with the disclosure of Wu et al. in order to improve the ink cartridge quality.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the printing-fluid container of Clark et al. with the disclosure of Sato et al. in order to provide for a more secure ink cartridge within the printer.

Claim 61 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clark et al. (US 5734401), Wu et al. (US 6059401) and Sato et al. (US 5801737), and further in view of Pawlowski, Jr. et al. (US 6113228).

Clark et al., Wu et al., and Sato et al. teach the apparatus of claim 56; however, none teach an electrical interface.

Pawlowski Jr. et al. teaches an electrical interface (figure 3, element 32) on the front face intermediate a first recessed portion and the left edge (figure 3).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the printing-fluid container of Clark et al. as modified with the disclosure of Pawlowski Jr. et al. in order to improve printing quality.

As per claims 64 and 66, Clark et al., Wu et al., and Sato et al. disclose the claimed invention except for a first recessed portion and a second recessed portion extending at least approximately 15 millimeters into the inner cavity and a third recessed portion and a fourth recessed portion extending at least approximately 12 millimeters into the inner cavity. It would have been obvious to one having ordinary skill in the art at the time the invention was made to extend the first recessed portion and the second recessed portion at least approximately 15 millimeters into the inner cavity and extend the third recessed portion and the fourth recessed portion at least approximately 12 millimeters into the inner cavity, since it has been held that discovering an optimum

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value of a result effective variable involves only routine skill in the art. In re Boesch, 617

F.2d 272, 205 USPQ 215 (CCPA 1980).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Laura E. Martin whose telephone number is (571) 272-

2160. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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Laura E. Martin

MANISH S. SHAH

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